

# Making Contact

## Chapter T6, G2, G6

### Contacts, Band Plans and Repeaters, Nets, Emergency Communications, Special Modes, HF Operating Techniques and Digital Communications

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#### Contacts, Band Plans and Repeaters

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(T2B01) What is the most common use of the “reverse split” function of a VHF/UHF transceiver?

ANSWER:

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(T2B03) If a station is not strong enough to keep a repeater’s receiver squelch open, which of the following might allow you to receive the station’s signal?

ANSWER:

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(T2B12) Why are simplex channels designated in the VHF/UHF band plans?

ANSWER:

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(T8C05) What is a grid locator?

ANSWER:

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(T2A02) What is the national calling frequency for FM simplex operations in the 2 meter band?

ANSWER:

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(T2C03) What should be done when using voice modes to ensure that voice messages containing unusual words are received correctly?

ANSWER:

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(T2A08) What is the meaning of the procedural signal "CQ?"

ANSWER:

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(T2A04) What is an appropriate way to call another station on a repeater if you know the other station's call sign?

ANSWER:

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(T2A12) Which of the following is a guideline to use when choosing an operating frequency for calling CQ?

ANSWER:

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(T2A05) How should you respond to a station calling CQ?

ANSWER:

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(T2A09) What brief statement indicates that you are listening on a repeater and looking for a contact?

ANSWER:

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(T2B14) Which of the following describes a linked repeater network?

ANSWER:

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(T7B10) What might be a problem if you receive a report that your audio signal through the repeater is distorted or unintelligible?

ANSWER:

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(T2A07) What is meant by "repeater offset?"

ANSWER:

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(T2A01) Which of the following is a common repeater frequency offset in the 2 meter band?

ANSWER:

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(T2A03) What is a common repeater frequency offset in the 70 cm band?

ANSWER:

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(T2B02) What term describes the use of a sub-audible tone transmitted along with normal voice audio to open the squelch of a receiver?

ANSWER:

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(T2B04) Which of the following could be the reason you are unable to access a repeater whose output you can hear?

ANSWER:

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(T8C06) How is access to some IRLP nodes accomplished?

ANSWER:

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(T8C07) What is meant by Voice Over Internet Protocol (VoIP) as used in amateur radio?

ANSWER:

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(T8C09) How might you obtain a list of active nodes that use VoIP?

ANSWER:

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(T8C10) What must be done before you may use the EchoLink system to communicate using a repeater?

ANSWER:

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(T8C08) What is the Internet Radio Linking Project (IRLP)?

ANSWER:

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(T2B06) What type of tones are used to control repeaters linked by the Internet Relay Linking Project (IRLP) protocol?

ANSWER:

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(T2B09) What is a “talk group” on a DMR digital repeater?

ANSWER:

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(T2B07) How can you join a digital repeater’s “talk group”?

ANSWER:

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# Nets, Emergency Communications, Special Modes

(T8D12) Which of the following best describes Broadband-Hamnet(TM), also referred to as a high-speed multi-media network?

ANSWER:

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(T2C02) What is meant by the term "NCS" used in net operation?

ANSWER:

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(T2C06) Which of the following is an accepted practice to get the immediate attention of a net control station when reporting an emergency?

ANSWER:

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(T2C07) Which of the following is an accepted practice for an amateur operator who has checked into a net?

ANSWER:

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(T2C08) Which of the following is a characteristic of good traffic handling?

ANSWER:

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(T2C10) What information is contained in the preamble of a formal traffic message?

ANSWER:

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(T2C11) What is meant by the term “check,” in reference to a formal traffic message?

ANSWER:

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(T2C01) When do the FCC rules NOT apply to the operation of an amateur station?

ANSWER:

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(T2C12) What is the Amateur Radio Emergency Service (ARES)?

ANSWER:

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(T1A10) Which of the following describes the Radio Amateur Civil Emergency Service (RACES)?

ANSWER:

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(T2C04) What do RACES and ARES have in common?

ANSWER:

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(T2C05) What does the term “traffic” refer to in net operation?

ANSWER:

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(T2C09) Are amateur station control operators ever permitted to operate outside the frequency privileges of their license class?

ANSWER:

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G2B02 -- What is the first thing you should do if you are communicating with another amateur station and hear a station in distress break in?

ANSWER:

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G2D07 -- Which of the following are examples of the NATO Phonetic Alphabet?

ANSWER:

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G2B09 -- Who may be the control operator of an amateur station transmitting in RACES to assist relief operations during a disaster?

ANSWER:

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G2B11 -- What frequency should be used to send a distress call?

ANSWER:

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G2B10 -- When is an amateur station allowed to use any means at its disposal to assist another station in distress?

ANSWER:

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(T1A07) What is the FCC Part 97 definition of a space station?

ANSWER:

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(T8B01) What telemetry information is typically transmitted by satellite beacons?

ANSWER:

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(T8B12) Which of the following is a good way to judge whether your uplink power is neither too low nor too high?

ANSWER:

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(T8B02) What is the impact of using too much effective radiated power on a satellite uplink?

ANSWER:

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(T8B03) Which of the following are provided by satellite tracking programs?

ANSWER:

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(T8B06) Which of the following are inputs to a satellite tracking program?

ANSWER:

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(T8B04) What mode of transmission is commonly used by amateur radio satellites?

ANSWER:

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(T8B05) What is a satellite beacon?

ANSWER:

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(T8B07) With regard to satellite communications, what is Doppler shift?

ANSWER:

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(T8B08) What is meant by the statement that a satellite is operating in mode U/V?

ANSWER:

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(T8B09) What causes spin fading of satellite signals?

ANSWER:

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(T1B02) Which amateur radio stations may make contact with an amateur radio station on the International Space Station (ISS) using 2 meter and 70 cm band frequencies?

ANSWER:

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(T8B10) What do the initials LEO tell you about an amateur satellite?

ANSWER:

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(T8B11) Who may receive telemetry from a space station?

ANSWER:

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(T8C01) Which of the following methods is used to locate sources of noise interference or jamming?

ANSWER:

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(T8C02) Which of these items would be useful for a hidden transmitter hunt?

ANSWER:

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(T8C03) What operating activity involves contacting as many stations as possible during a specified period?

ANSWER:

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(T8C04) Which of the following is good procedure when contacting another station in a radio contest?

ANSWER:

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(T8D04) What type of transmission is indicated by the term "NTSC"?

ANSWER:

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G2A03 -- Which of the following is most commonly used for SSB voice communications in the VHF and UHF bands?

ANSWER:

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# HF Operating Techniques and Digital Communications

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G2D05 -- Which of the following is a good way to indicate on a clear frequency in the HF phone bands that you are looking for a contact with any station?

ANSWER:

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G1B08 -- when choosing a transmitting frequency, what should you do to comply with good amateur practice?

ANSWER:

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G2A01 -- Which sideband is most commonly used for voice communications on frequencies of 14 MHz or higher?

ANSWER:

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G2A04 -- Which mode is most commonly used for voice communications on the 17-meter and 12-meter bands?

ANSWER:

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G2A05 -- Which mode of voice communication is most commonly used on the HF amateur bands?

ANSWER:

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G2A06 -- Which of the following is an advantage when using single sideband, as compared to other analog voice modes on the HF amateur bands?

ANSWER:

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(T2B13) -- Where may SSB phone be used in amateur bands above 50 MHz?

ANSWER:

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G2A07 -- Which of the following statements is true of the single sideband voice mode?

ANSWER:

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G2A08 -- What is the recommended way to break in to a phone contact?

ANSWER:

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G2A09 -- Why do most amateur stations use lower sideband on the 160-meter, 75-meter, and 40-meter bands?

ANSWER:

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G2A02 -- Which of the following modes is most commonly used for voice communications on the 160-meter, 75-meter, and 40-meter bands?

ANSWER:

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G2A11 -- Generally, who should respond to a station in the contiguous 48 states who calls "CQ DX"?

ANSWER:

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G2B04 -- When selecting a CW transmitting frequency, what minimum separation should be used to minimize interference to stations on adjacent frequencies?

ANSWER:

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G2B03 -- What is good amateur practice if propagation changes during a contact and you notice interference from other stations on the frequency?

ANSWER:

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G2B01 -- Which of the following is true concerning access to frequencies in non-emergency situations?

ANSWER:

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G2B05 -- When selecting an SSB transmitting frequency, what minimum separation should be used to minimize interference to stations on adjacent frequencies?

ANSWER:

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G2B06 -- what is a practical way to avoid harmful interference on an apparently clear frequency before calling CQ on CW or phone?

ANSWER:

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(T7B11) -- What is a symptom of RF feedback in a transmitter or transceiver?

ANSWER:

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G2B07 -- Which of the following complies with good amateur practice when choosing a frequency on which to initiate a call?

ANSWER:

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G2D08 -- What is a reason why many amateurs keep a station log?

ANSWER:

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G2D09 -- Which of the following is required when participating in a contest on HF frequencies?

ANSWER:

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G2A10 -- Which of the following statements is true of voice VOX operation versus PTT operation?

ANSWER:

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G2C01 -- Which of the following describes full break-in telegraphy (QSK)?

ANSWER:

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G2C02 -- What should you do if a CW station sends "QRS?"

ANSWER:

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G2C03 -- What does it mean when a CW operator sends "KN" at the end of a transmission?

ANSWER:

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G2C04 -- What does the Q signal "QRL?" mean?

ANSWER:

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G2C05 -- What is the best speed to use when answering a CQ in Morse code?

ANSWER:

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G2C06 -- what does the term "zero beat" mean in CW operation?

ANSWER:

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G2C07 -- When sending CW, what does a "C" mean when added to the RST report?

ANSWER:

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G2C08 -- What prosign is sent to indicate the end of a formal message when using CW?

ANSWER:

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G2C09 -- What does the Q signal "QSL" mean?

ANSWER:

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G2C10 -- What does the Q signal "QRN" mean?

ANSWER:

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G2C11 -- What does the Q signal "QRV" mean?

ANSWER:

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(T8D14) What is an electronic keyer?

ANSWER:

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G4A10 -- What is the purpose of an electronic keyer?

ANSWER:

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(T2B10) Which Q signal indicates that you are receiving interference from other stations?

ANSWER:

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(T2B11) Which Q signal indicates that you are changing frequency?

ANSWER:

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G2E04 -- What segment of the 20-meter band is most often used for digital transmissions (avoiding the DX propagation beacons)?

ANSWER:

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